REPORT FROM BIKINI —

A "smoke-clearing" evaluation of A-bomb's revolutionary effect on aeronautical science—and the changes it demands in aircraft and accessory design and operation.

By SCHOLER BANGS
Aviation News Correspondent at Operation Crossroads
(Radio from Kwajalein)

CLEAR GUIDEPOSTS—many already existing but unheeded—pointing to America's future military aviation were sharply defined at Operation Crossroads. Most significant among them indicate:

- 1. Complete obsolescence of the conventional airplane as a defense-offense weapon with 10 years . . .
- Replacement, within 5 years, of today's bombers with, first, very long range radio-controlled bombers and, second, very long range manned bombers capable of launching guided missiles fitted with atomic warheads.
- 3. Limited but continuing production development of piston engine and jet powered bombers and fighters now on assembly lines, with order sizes designed to maintain a manufacturing nucleus capable of quick expansion to war production...
 4. Greater emphasis on maintenance for bombers
- capable of striking anywhere in the world . . .
- 5. Immediate advancement of worldwide, long range weather forecasting as an integral part of national defense...
- 6. Immediate re-evaluation of U. S. air forces and drastic revision of now-obsolete concepts of air war to activate new weapons and tactics.

With 2-3,000-mph. guided missiles a distinct possibility, only three atomic defenses appear possible: First, strong anti-africraft and fighter defense using counteratomic weapons to attack missiles or bombers; second, striking at atomic bases; and third, striking at atomic manufacturing centers.

Only the third is given much chance for success by military leaders, which points to interim aircraft pending guided missile development — fast, heavy bombers capable of hitting any place on earth and returning, and possessing flight characteristics suited to radio control.

As to controls, Bikini established: That drones (or guided missiles) suffer no radiological interference; electronic circuits function normally flying through atomic clouds; engine power remains constant, with no evidence of oxygen starvation; turbulence at all levels within atomic clouds is probably less than continental thunderheads.

Atomic guided missiles will call for finest possible maintenance; loss of a single plane over enemy territory due to aborted maintenance might prove disastrous in giving the enemy a ready-assembled bow which could be shot right back. Such maintenance will call for specialization rather than round-the-clock work on a given plane.

Weather forecasting will increase in importance with range—with extremely accurate 24-hr. forecasts a tactical "must." Meteorologists, on basis of Bikini experience, hold hope for reasonably accurate 15-day forecasts in the foreseeable future.

While the Blikini test was essentially military, aircraft and accessory producers, research engineers, and airline operators can benefit from trends established here. One example: Military development of heavy drones leading to civil application of remote control techniques conceivably useful in operating crewless freighters having entire lift devoted to fuel and payload.

ALSO SEE these exclusive Bikini articles: Atom Bomb Pounded Cruiser Pensacola Into Twisted Wreck (Page 7); Drones Getting Nod for Bomb Missions (Page 10); Bikini Was Science Test, Observer Warns (Page 10); and Behavior Data Gathered in Bomb Test (Page 21).

THE AVIATION NEWS NAVY IS POILED AGAIN-This week's lesself-

Washington Observer



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THE AIR-GOING BENCH

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AVIATION NEWS

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Value 4, No. 3

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AVIATION NEWS + 1atv 15, 1966

News Digest

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AVIATION NEWS . Into 15, 1966

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altern worth talking about

Dependable Power for Both



Again it's Pratt & Whitney power for postwar aircraft. Now it's the Consolidated Vultee 240 and Martin 202 and 303. Each of these new aircraft, capable of carring 30-40 passengers at 300 m.p.h., will be powered by two R-2800 dependable Double Wasp engines.

PRATE & WHITNEY MIRCRAFT PAST HARTFORD & CONNECTICUT

ONE OF THE FOUR DIVISIONS OF UNITED AIRCRAFT CORPORATION

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AVIATION NEWS . No. 15, 1966

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AVIATION NEWS . July 15 1900

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SPECIAL AIR SERVICES

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Farmers Air Plan

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COOLING TURBINES



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AVIATION NEWS . July 15, 1946

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WHATTA PEACH-SHE'S A BEECH!

See, you'll be up in the air in more. serve then one when that new Booch of yours goes humming down the DERWAY!

if you're one of those modernminded executives who knows that on errolene is road business, we're all for you. For our business is doing basiness with felks like you. So-advancer was the to the most

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AVIATION NEWS . NO 15, 1966

Aircraft Behavior Data Gathered in Bomb Test Kweeden (Suggest to Agranges

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model of the Nevy's Fireball firbter which has bells jet and conventional Martin Has Order Backlog

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> and the Dodge serbers of Acres Fairchild Corp. V-Loan

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Ryan Adds Employees

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Is Reduced to \$5,000,000

PRODUCTION -- 21

FINANCIAL

Airline Stocks Continue to Sell

At Up to Seven Times Book Values

year: deficies represent in first quarter had sobering effect. Airflag equities continue to sell at of the preferred stock earlier than meterial premiums to book values. year and the attance of manueto actual asset values currently . Speculative Interest - American's ago. At the present time, market the broad expension plans have atin every postone has been use of belond made rights nathernation the early morths of 1995, writes

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AVIATION NAMES . NO. 15 1965

PRIVATE FLYING

New Variable Pitch Propellers

Added to Many Lightplanes Processor models will feature more efficient troops as personal equipment due to cost; many manufacturers in field

Controllable authoratic two roots. Other popully: committee must reserve Corp. Contract. Flor. Kern Mile Co. Grand Repels, Mich . variable propelling McCraky Curp. Daytes, Chap,

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AVIATION NEWS . 3ulv 15, 1946

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BAUMANN BRIGADIER An artist's conception of the newly designed Basesian Brigadier 253,

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125 hp. Bellanes four-other Crassmate propellers

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for around \$250. Measurer it is New All-Metal Wing Made for Luscombe being offered at a retail price of 2025 in a recent Firestone Alerraft More detailed descriptions or to Beech, Continental Walcotte-

New Lightplane Field

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AVIATION NEEDS & No. 25 1866

Stinson Orders 2,000 Franklin '355' Engines

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home City business datast, will six, a company matches, februar have a 2.600 ft. North-South van. equipment, sleeping bags, anow Harner H. Dunley, Jr., hend of a group of Oklahoma Day business

Hallicrafters to Supply Bell 'Copter Radios Contract to namely all make re-

place belongster, Madel 47-9, has gratical Corp. Philadelphia, re-On Canadian Rules breal distributor for Mathersther matter-receiver set, in what in booutly announced continues for

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THOMPSON RECAP SERVICE: AVIATION NEWS a list 15, 1966

truck cells on grounts once a week. Lefer three trucks will be used to cover territory. Plans are far

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APRIAL PATROL.

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These Inc. Cleveland: Western Bullske Accommatical Corp., Bullston.

Phy-Away-Pactory Service Offered by Former ATC Men desire's still-exple but of tricks. It as emplay to the drive-news busy-Severous Kurn and A Alex Meeles, here retriated former Air

preferiors, a bonded prior and fuel-13% ceeds per string male on all pony severa all manufacturers. He, delivery month 26-PRIVATE PLYING AVIATION NEWS . Buy 15, 1946

Briefing to Fred Price CAP CHARTESED-President Transacts recent action signing a NE

successfully passed by both Houses of Congress to great a federal charter proved in 13 years. It gives CAP isobleticaed rings against in the Red recognizes was expited to CAP's warters proving to county and books pointly, travel sensing, rejoving expends sength and other susuant so which more than 50 CAP sarmen were last Under leadership of Col Earle L. Johnson who configure to natural community CAP is accounted to one tions serves in cycling convergencies where according new maried, and to coper sic show in each state this year, with AAF porticipation is planned to came funds for CAP opendages, curtualed sharply since AAF support had to be weightered last Merch.

130 IN ERCO PLYING CLUB-Employes at Engancering & Research

POLICIAN GLIBES SERPHENTS-Schweiger Arrend Corp. Davin. has shorted foreign altiparents of gliders and saliplanes, by sending a twoplace SGU 2-22 saliplace to Bacces Aircs, Argentias, and a displaceplace SGC-1-11 glider to Eng Landon, Union of South Africa. The substance will be demonstrated before the Assessab Albeiton, and officers of the Assessable tic face, while the Afreen glater is comigned to Blatter Actains which water in force of der chain in the Union and in Maribers Ehodesia sina The two models are deligated with very similar facilit characteristics to second easy transition from one to the other. The economy has received a large number of impairies from foreign countries where the glidling and sausing convenent in subsidized by national accomments. The Newwegion Acro Clab recently hought 26 Solvanian array abdeer from purplus Sweden, France, Holland, Belgiser, Derguark and Amirika are other eres which have indicated indexed in the Schweiser autorious abroads

HARA-KIRI AFTER 68 MISSIONSS-A bulletin prepared by the Cavil Sede Wartime Missions?" Seld at 5 cmin a copy by the Government bell William Missau. One of 5 CHR 5 COpy by an excessions. Principle Office, Westergies 5, D. C., the pumplier might be guaranteed with advantage by the refigure surrent convitors to the "box sides?" or multiper place to a 55 by Lightplace, "How many admirals, accustament

SALESMANSHIP HOTHED-The territory of entrepoliton New York mary surel areas, but it is point to be cohiected within the setal free excetts to some of the britest sales compelition in the field. Latest Urbaplace expect to systemer his establishment in New York, is J. C. (Jim) Websch, Jarwer Straum rales director, who now heads Present Airphre Sales Curp., New York Crosse, distributer, with affices at 147 West 42nd St. Writeh will be in reprocition aware others with each extenses of

farmer Accesses takes director, now polling up his New York Assumed distributorship, the department store ortags of Ecoupy, Phys., and Taylorcraft, and the fact that Republic Aviation Corp. will doubling reaccentife heavily on begings sales in its honestown territory. If the turn sweaps expense is reduced.

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Steamship Lines Face Possible Loss of Half Luxury Travel to Air

International addises boosting staffic while parface carriers weir for recovered finers; bigget air guiga sees on Hawaii run

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AVIATION NEWS . July 15, 1940

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travel between the West Coast and Fillsted Plane DC-6's-United intangl from a gre-way \$570 to \$105

Southampton will be around \$300, "nerhan rease" This compares In contrast, project New York-Lendon sirbury face in \$105, with ld the lift areas in on the wide

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TEANSFORT -- 27

see directly to London and Pere. Helicopter Mail Runs

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Air Lines Board Rules On TWA Pilot Case Presidented group recommends wage incomes below AIPA de-

mank respective airline warr By BLAINE STURBLEFIELD

The Air Lipus Emergency Tesed. apposited by the President to farestall a TWA minty stroke and be engage places, gave the pilets less than a file store in its findings. These (1) recognized for surface

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RADIO DIRECTION:

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New Baltimore Airport Program Lags in Purchase of Land Tracts

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Full Fares for Children?

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A near and near had only 25 captured German A ".Th to conduct their high-altitude tests, and are weedering have to enterpain and surveys, all Despite everal fine predictions and surveys, all well publicated, nearly two years after the first V-3 made its appearance or England our services heart our US-made copiet that surveys as



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